



Maritime Air Quality Technical Working Group

ARB Updates

November 10, 2004

California Environmental Protection Agency



Air Resources Board

Regulatory Development

- ◆ Ship Auxiliary Engines
- ◆ Harbor Craft
- ◆ Cargo Handling Equipment
- ◆ Cleaner Fuels for Harbor Craft and Intrastate Locomotives

Ship Auxiliary Engines

- ◆ Statewide proposal to require the use of cleaner distillate fuels in auxiliary engines
- ◆ Additional requirements for frequent visitors
- ◆ Public Workshops: April 2004; November 2004; additional workshops in 2005
- ◆ Ship Survey: Release December 2004
- ◆ ARB Consideration: 4th Quarter 2005

Harbor Craft

- ◆ Statewide proposal to reduce emissions from existing harbor craft
 - add-on controls, lower emission rebuild kits, cleaner fuels, and repowering with new engines
- ◆ Vessel Survey and Draft Emissions Inventory
- ◆ U.S. Navy Demonstration Project (2004)
- ◆ Blue and Gold Retrofit Demonstration (2005)
- ◆ Public Workshops/Workgroup meetings: 2004-2005
- ◆ ARB Consideration: 4th Quarter 2005

Cargo Handling Equipment at Ports and Rail Intermodal Facilities

- ◆ Statewide proposal to reduce emissions from in-use cargo handling equipment
- ◆ Equipment Survey - Late 2004
- ◆ ARB/POLA Emissions Test Project - 2005
- ◆ Public Workshops/Workgroup Meetings: 2004-2005
- ◆ ARB Consideration: 4th Quarter 2005

Cleaner Fuels for Harbor Craft and Intrastate Locomotives

- ◆ Proposal to require use of California on-road diesel fuel in harbor craft and intrastate locomotives
- ◆ Public Workshops: 2004
- ◆ Board Consideration: November 18, 2004

Sulfur Emission Control Area

- ◆ IMO process -- Create Sulfur Emission Control Area (SECA)
- ◆ Potentially significant emission reductions
- ◆ U.S. EPA lead
- ◆ ARB support with technical data and analyses
- ◆ West Coast cooperative effort

Ship Demonstration Project

- ◆ Demonstrate cost-effective shipboard retrofit technologies
- ◆ Identified candidate ship/partners
- ◆ Tentative start date: March 2005



Shore-side Power Feasibility Study

- ◆ Assess the technical feasibility of shore power at California's ports for ocean-going vessels
- ◆ Schedule:
 - Informational Meeting
 - November 9, 2004
 - First Draft of Feasibility Study Report
 - February 2005
 - Public Meeting
 - March 2005
 - Final Report Released
 - April 2005

Port Fact Sheet

- ◆ Summarizes importance of maritime activities in California
- ◆ Identifies steps taken and planned to reduce maritime emissions
- ◆ Target audience: Port communities, Legislature, port/ship operators.....

Port and Railyard Statewide Comprehensive Strategy

- ◆ Develop overall strategy to reduce NO_x, SO_x, and PM emissions associated with goods transport
- ◆ Prioritize measures taking into account, impact on risk & emission reduction potential, cost-effectiveness and technical feasibility
- ◆ Public process and Completion: 2005